

Stationary NOx RACT Reduction Potential in Ozone Non-Attainment Area (9 County Region) (Draft 1/11/99)

Sources > 25 tpy PTE in severe N.A.; Sources > 100 TPY PTE in moderate N.A.; 1995 reported emissions

Statewide Stationary NOx Emissions Outside of the Ozone Non-Attainment Area
(Draft 1/11/99)

Based on 1995 actual emissions reported to the WDNR air emissions inventory

Source Type	# of Units	Ozone Season NOx (tons)	Daily NOx (tpd)	Relative Contribution		Control vs. ROP Impact	
				% of Pt. Source NOx	Avg TPD NOx per Unit	Example Control Level	Daily NOx Redctn (tpd)
EGU Boilers	43	22,950	150.0	60.0%	3.49 (0.11 to 0.55 lbs/mmbtu)	65% (0.2 to 0.25 lbs/mmbtu)	98
<u>Industrial Boilers</u>							
> 250 mmbtu/hr	19	5,480.0	36.00	14.4%	1.89	50%	18
>100 mmbtu/hr	78	4,365.6	28.5	11.4%	0.37	30%	9
> 50 mmbtu/hr	110	563.0	3.7	1.5%	0.03	30%	1
< 50 mmbtu/hr	970	851.2	5.6	2.2%	0.01	10%	1
Total Ind. Boilers	1,177	11,259.8	73.78	29.5%	0.06		28
Asphalt Plants	8	11	0	0.0%	0.01	50%	0
Furnaces	43	561	4	1.5%	0.09	50%	2
IC Engines	214	1,703	11	4.5%	0.05	50%	6
Lime Kilns/Production	11	463	3	1.2%	0.28	50%	2
Process	804	1,042	7	2.7%	0.01	30%	2
Other	77	107	1	0.3%	0.01		
Not Determined	25	104	1	0.3%	0.03		
Total	2,402	38,201	250	100.0%	0.10		137

Comparison of Statewide Stationary NOx Source Categories (Draft 1/11/99)

Based on 1995 actual emissions reported to the WDNR air emissions inventory

Source Type	# of Units	Ozone Season NOx (tons)	Daily NOx (tpd)	Relative Contribution		Control vs. ROP Impact	
				% of Total Pt. Source NOx	Avg TPD NOx per Unit	Example Control Level	Daily NOx Redctn (tpd)
<u>EGU Boilers</u>							
N.A. Cnty Area	14	26,700	195	42%	13.9	65%	126.8
MAIN Less N.A. Cty Area	28	19,251	126	27%	4.5	65%	81.9
MAPP	15	3,699	24	5%	1.6	65% (0.2 to 0.25 lbs/mmbtu)	15.6
<u>Statewide Industrial</u>							
> 250 mmbtu/hr	22	5,515	36	8%	1.6	50%	18.1
>100 mmbtu/hr	91	4,733	31	7%	0.3	30%	9.3
> 50 mmbtu/hr	156	651	4	1%	0.0	30%	1.3
< 50 mmbtu/hr (>25tpy)	970	851	6	1%	0.0	10%	0.6
Subtotal Boilers	1,239	11,750	77	17%	0.1		29.2
Asphalt Plants	36	45	0	0%	0.0	50%	0.1
Furnaces	63	1,096	7	2%	0.1	50%	3.6
IC Engines	230	1,902	12	3%	0.1	50%	6.2
Lime Kilns/Production	11	463	3	1%	0.3	50%	1.5
Other	1,713	2,309	15	3%	0.0		
Total	7,033	67,214	460	100%	0.1		265.0